Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	81260	"707"/(3,10,103R).ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/03 11:48
L2	69691	"709"/("218,219").ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/03 11:48
L3	2255	715/513.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/03 11:49
L4	123365	1 or 2 or 3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/03 11:49
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L6	1761	olap or "analytic engine" or "analytic tool"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/03 11:50
L7	76	(olap or "analytic engine" or "analytic tool") same (graph or (direct adj2 graph))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/03 11:51
L8	76	6 and 7	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/03 11:51
L9	21	4 and 8	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/03 11:55
L10	2	relationship near (data near2 object$1) near (editable or modifiable or updat$6)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/03 11:53

	Document ID	Kind Codes	Source	Issue Date	Pages
1	US 20040133552 A1		US-PGPUB	20040708	24
2	US 20040078300 A1		US-PGPUB	20040422	29
3	US 20020124002 A1		US-PGPUB	20020905	38
4	US 6931418 B1		USPAT	20050816	21
5	US 6865567 B1		USPAT	20050308	116
6	US 6807518 B1		USPAT	20041019	5
7	US 6768986 B2		USPAT	20040727	29
8	US 6714940 B2		USPAT	20040330	14
9	US 6684207 B1		USPAT	20040127	23

	Title	Abstract
1	System and method for online analytical processing	
2	Method and apparatus for progressive information querying on proprietary data and for the progressive selling of information	
3	Analysis of massive data accumulations using patient rule induction method and on-line analytical processing	
4	Method and system for partial-order analysis of multi-dimensional data	
5	Method of generating attribute cardinality maps	
6	Method for analyzing product information	
7	Mapping of an RDBMS schema onto a multidimensional data model	
8	Systems, methods, and computer program products to rank and explain dimensions associated with exceptions in multidimensional data	
9	System and method for online analytical processing	

	Current OR	Current XRef	Retrieval Classif	Inventor
1	707/1			Greenfield, David et al.
2	705/27	705/26		Smith, John R. et al.
3	707/100			Su, Hua-Ching et al.
4		707/10; 707/101; 707/102; 707/3; 707/5; 707/6		Barnes; Steven M.
5	707/2			Oommen; Basantkumar John et al.
6	703/2	703/22; 703/8; 705/26; 705/27; 707/104.1; 707/203		Lang; Theodore James
7	707/2	702/62; 707/102; 707/103R; 707/104.1; 709/224; 715/501.1; 715/719		Cras; Jean-Yves et al.
8	707/102	707/100		Kelkar; Bhooshan P.
9	707/3			Greenfield; David et al.

	Document ID	Kind Codes	Source	Issue Date	Pages
10	US 6677963 B1		USPAT	20040113	14
11	US 6671689 B2		USPAT	20031230	18
12	US 6671680 B1		USPAT	20031230	46
13	US 6665683 B1		USPAT	20031216	10
14	US 6643646 B2		USPAT	20031104	9
15	US 6615096 B1		USPAT	20030902	13
16	US 6581068 B1		USPAT	20030617	36
17	US 6567804 B1		USPAT	20030520	14

	Title	Abstract
10	Computer-executable method for improving understanding of business data by interactive rule manipulation	
11	Data warehouse portal	
12	Data mining apparatus and storage medium storing therein data mining processing program	
13	System and method for adjusting a value within a multidimensional aggregation tree	
14	Analysis of massive data accumulations using patient rule induction method and on-line analytical processing	
15	Method using statistically analyzed product test data to control component manufacturing process	
16	System and method for instant consolidation, enrichment, delegation and reporting in a multidimensional database	
17	Shared computation of user-defined metrics in an on-line analytic processing system	

	Current OR	Current XRef	Retrieval Classif	Inventor
10	715/764	379/122; 455/405; 705/10; 706/47; 706/59; 707/104.1; 707/5; 715/962; 715/968		Mani; Denkanikota R. et al.
11	707/100	707/3; 715/513; 715/514; 715/526		Papierniak; Karen
12	707/3	707/1; 707/4; 707/5		Iwamoto; Masaki et al.
13	707/101	707/102; 707/104.1		Meltzer; Andrew
14	707/6			Su; Hua-Ching et al.
15	700/115	700/109; 700/110; 707/104.1		Durrant; Douglas J. et al.
16	707/104.1	707/100; 707/102		Bensoussan; Pierre et al.
17	707/4	707/3		Ramasamy; Karthikeyan et al.

	Document ID	Kind Codes	Source	Issue Date	Pages
18	US 6434544 B1		USPAT	20020813	40
19	US 6408292 B1		USPAT	20020618	62
20	US 6405207 B1		USPAT	20020611	17
21	US 5963936 A		USPAT	19991005	15

	Title	Abstract
18	Stand-alone cartridge-style data aggregation server providing data aggregation for OLAP analyses	
19	Method of and system for managing multi-dimensional databases using modular-arithmetic based address data mapping processes on integer-encoded business dimensions	
20	Reporting aggregate results from database queries	
21	Query processing system that computes GROUPING SETS, ROLLUP, and CUBE with a reduced number of GROUP BYs in a query graph model	

	Current OR	Current XRef	Retrieval Classif	Inventor
18	707/2	707/10; 707/102; 707/3		Bakalash; Reuven et al.
19	707/2	707/100; 707/3		Bakalash; Reuven et al.
20	707/102	707/1; 707/3; 707/5		Petculescu; Cristian et al.
21	707/3	707/2; 707/5		Cochrane; Roberta Jo et al.

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IEEE CNF	IEEE Conference Proceeding
IEE CNF	IEE Conference Proceeding
IEEE STD	IEEE Standard

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Stefanovic, N.; Jiawei Han; Koperski, K.;

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1 Features to consider in a data warehousing system
Narasimhaiah Gorla
November 2003 **Communications of the ACM**, Volume 46 Issue 11
Full text available: pdf(107.12 KB) html(27.43 KB) Additional Information: full citation, abstract, references, index terms

Evaluating and assessing the important distinctions between data processing capability and data currency.

2 Extending OLAP querying to external object databases
Torben Bach Pedersen, Arie Shoshani, Junmin Gu, Christian S. Jensen
November 2000 **Proceedings of the ninth international conference on Information and knowledge management**
Full text available: pdf(168.32 KB) Additional Information: full citation, references, citings, index terms

3 Detecting patterns and OLAP operations in the GOLD model
Juan Trujillo, Manuel Palomar, Jaime Gómez
November 1999 **Proceedings of the 2nd ACM international workshop on Data warehousing and OLAP**
Full text available: pdf(785.68 KB) Additional Information: full citation, abstract, references, citings, index terms

The aim of our GOLD model ([7], [9]) is to provide an Object Oriented (OO) Multidimensional data model supported by an OO formal specification language that allows us to automatically generate prototypes from the specification at the conceptual level, and therefore, to animate and check system properties. Within the context of OO modeling and automatic prototyping, the basis of the mapping from modeling to programming is focused on the identification of (cardinality and beh ...

4 Automatically generating OLAP schmata from conceptual graphical models
Karl Hahn, Carsten Sapia, Markus Blaschka
November 2000 **Proceedings of the 3rd ACM international workshop on Data warehousing and OLAP**
Full text available: pdf(118.84 KB) Additional Information: full citation, references, citings, index terms

Keywords: OLAP, conceptual design, data warehouse, graphical multidimensional modeling notation, multidimensional schema generation

5 Articles: A pictorial query language for querying geographic databases using positional and OLAP operators
Elaheh Pourabbas, Maurizio Rafanelli
June 2002 **ACM SIGMOD Record**, Volume 31 Issue 2
Full text available: pdf(639.88 KB) Additional Information: full citation, abstract, references

The authors propose a declarative Pictorial Query Language (called PQL) that is able to express queries on an Object-Oriented geographic database drawing the features which form the query. These features refer to the classic ones of a geographic environment (geo-null, geo-points, geo-polyline, and geo-region) and define the alphabet of the above mentioned language. This language, extended with respect to a previous one, considers twelve positional operators and a set of their specifications. Mor ...

6 Understanding facts in a multidimensional object-oriented model
Alberto Abelló, José Samos, Fèlix Saltor
November 2001 **Proceedings of the 4th ACM international workshop on Data warehousing and OLAP**
Full text available: pdf(1.37 MB) Additional Information: full citation, abstract, references, citings, index terms

"On-Line Analytical Processing" tools are used to extract information from the "Data Warehouse" in order to help in the decision making process. These tools are based on multidimensional concepts, i.e. facts and dimensions. In this paper we study the meaning of facts, and the dependencies in multidimensional data. This study is used to find relationships between cubes (in an Object-Oriented framework) and explain navigation operations.

Keywords: cube operations, functional dependencies, multidimensionality, object-oriented modeling

7 On relationships offering new drill-across possibilities
Alberto Abelló, José Samos, Fèlix Saltor
November 2002 **Proceedings of the 5th ACM international workshop on Data Warehousing and OLAP**
Full text available: pdf(236.84 KB) Additional Information: full citation, abstract, references, citings, index terms

OLAP tools divide concepts based on whether they are used as analysis dimensions, or are the fact subject of analysis, which gives rise to star shape schemas. Operations are always provided to navigate inside such star schemas. However, the navigation among different stars is usually overlooked. This paper studies different kinds of Object-Oriented conceptual relationships (part of UML standard) between stars (namely *Derivation*, *Generalization*, *Association*, and *Flow*) ...

Keywords: UML, drill-across, multidimensional design, semantics

8 The GOLD definition language (GDL): an object oriented formal specification language for multidimensional databases
Juan Trujillo, Manuel Palomar, Jaime Gómez
March 2000 **Proceedings of the 2000 ACM symposium on Applied computing - Volume 1**
Full text available: pdf(421.67 KB) Additional Information: full citation, references, citings, index terms

Keywords: OLAP, conceptual modeling, data warehouses, multidimensional databases, object-orientation

9 Conceptual multidimensional data model based on object-oriented metacube
Nguyen Thanh Binh, A. Min Tjoa
March 2001 **Proceedings of the 2001 ACM symposium on Applied computing**
Full text available: pdf(306.39 KB) Additional Information: full citation, references, index terms

Keywords: OLAP, cube, dimensions, drillingDown, measures, rollingUp

10 Industry/government track posters: Analytical view of business data
Adam Yeh, Jonathan Tang, Youxuan Jin, Sam Skrivan
August 2004 **Proceedings of the tenth ACM SIGKDD international conference on Knowledge discovery and data mining KDD '04**
Full text available: pdf(337.00 KB) Additional Information: full citation, abstract, references, index terms

This paper describes a logical extension to Microsoft Business Framework (MBF) called Analytical View (AV). AV consists of three components: Model Service for design time, Business Intelligence Entity (BIE) for programming model, and IntellDrill for runtime navigation between OLTP and OLAP data sources. AV feature-set fulfills enterprise application requirements for Analysis and Decision Support, complementing the transactional feature-set currently provided by MBF. Model Service automatically t ...

Keywords: OLAP, OLTP, analytics, application framework, business intelligence, entity persistence, information retrieval and navigation, object-oriented

11 OLAP and statistical databases: similarities and differences
Arie Shoshani
May 1997 **Proceedings of the sixteenth ACM SIGACT-SIGMOD-SIGART symposium on Principles of database systems**
Full text available: pdf(1.66 MB) Additional Information: full citation, references, citings, index terms

12 A framework for object-oriented on-line analytic processing
Jan W. Buzydlowski, Il-Yeol Song, Lewis Hassell
November 1998 **Proceedings of the 1st ACM international workshop on Data warehousing and OLAP**
Full text available: pdf(774.11 KB) Additional Information: full citation, references, citings, index terms

13 Fast detection of communication patterns in distributed executions
Thomas Kunz, Michiel F. H. Seuren
November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**
Full text available: pdf(4.21 MB) Additional Information: full citation, abstract, references, index terms

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

14 Event-entity-relationship modeling in data warehouse environments
Lars Bækgaard
November 1999 **Proceedings of the 2nd ACM international workshop on Data**

warehousing and OLAP

Full text available: pdf(634.98 KB) Additional Information: full citation, abstract, references, citings, index terms

We use the event-entity-relationship model (EVER) to illustrate the use of entity-based modeling languages for conceptual schema design in data warehouse environments. EVER is a general-purpose information modeling language that supports the specification of both general schema structures and multi-dimensional schemes that are customized to serve specific information needs. EVER is based on an event concept that is very well suited for multi-dimensional modeling because measurement data oft ...

Keywords: data warehousing, event modeling, information modeling, multi-dimensional modeling, star schemes

15 Research session: data warehousing and archive: An adaptive peer-to-peer network for distributed caching of OLAP results

Panos Kalnis, Wee Siong Ng, Beng Chin Ooi, Dimitris Papadias, Kian-Lee Tan

June 2002 **Proceedings of the 2002 ACM SIGMOD international conference on Management of data**

Full text available: pdf(1.37 MB) Additional Information: full citation, abstract, references, citings, index terms

Peer-to-Peer (P2P) systems are becoming increasingly popular as they enable users to exchange digital information by participating in complex networks. Such systems are inexpensive, easy to use, highly scalable and do not require central administration. Despite their advantages, however, limited work has been done on employing database systems on top of P2P networks.Here we propose the PeerOLAP architecture for supporting On-Line Analytical Processing queries. A large number low-end clients, eac ...

16 Research session 6: OLAP and constraints: On moving object queries: (extended abstract)

Hoda Mokhtar, Jianwen Su, Oscar Ibarra

June 2002 **Proceedings of the twenty-first ACM SIGMOD-SIGACT-SIGART symposium on Principles of database systems**

Full text available: pdf(221.53 KB) Additional Information: full citation, abstract, references, index terms

Database applications for moving objects pose new challenges in modeling, querying, and maintenance of objects whose locations are rapidly changing over time. Previous work on modeling and querying spatio-temporal databases and constraint databases focus primarily on snapshots of changing databases. In this paper we study query evaluation techniques for moving object databases where moving objects are being updated frequently. We consider a constraint database approach to moving objects and quer ...

17 A multidimensional and multiversion structure for OLAP applications

Mathurin Body, Maryvonne Miquel, Yvan Bédard, Anne Tchounikine

November 2002 **Proceedings of the 5th ACM international workshop on Data Warehousing and OLAP**

Full text available: pdf(349.70 KB) Additional Information: full citation, abstract, references, citings, index terms

When changes occur on data organization, conventional multidimensional structures are not adapted because dimensions are supposed to be static. In many cases, especially when time covered by the data warehouse is large, dimensions of the hypercube must be redesigned in order to integrate evolutions. We propose an approach allowing to track history but also to compare data, mapped into static structures. We define a conceptual model building a Mutiversion Fact Table from the Temporal Multidimensi ...

Keywords: OLAP, conceptual model, data warehouse, temporal evolution

18 Designing data marts for data warehouses

October 2001 **ACM Transactions on Software Engineering and Methodology (TOSEM)**, Volume 10 Issue 4

Full text available: pdf(203.43 KB) Additional Information: full citation, abstract, references, index terms, review

Data warehouses are databases devoted to analytical processing. They are used to support decision-making activities in most modern business settings, when complex data sets have to be studied and analyzed. The technology for analytical processing assumes that data are presented in the form of simple data marts, consisting of a well-identified collection of facts and data analysis dimensions (star schema). Despite the wide diffusion of data warehouse technology and concepts, we still miss me ...

Keywords: conceptual modeling, data mart, data warehouse, design method, software quality management

19 An object oriented approach to multidimensional database conceptual modeling (OOMD)

J. Trujillo, M. Palomar

November 1998 **Proceedings of the 1st ACM international workshop on Data warehousing and OLAP**

Full text available: pdf(845.91 KB) Additional Information: full citation, references, citings, index terms

20 Views as first-class citizens in object-oriented databases

Reda Alhajj, Faruk Polat, Cem Yílmaz

April 2005 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 14 Issue 2

Full text available: pdf(1.68 MB) Additional Information: full citation, abstract

Extensibility and dynamic schema evolution are among the attractive features that lead to the wide acceptance of the object-oriented paradigm. Not knowing all class hierarchy details should not prevent a user from introducing new classes when necessary. Naive or professional users may define new classes either by using class definition constructs or as views. However, improper placement of such classes leads to a flat hierarchy with many things duplicated. To overcome this problem, we automated ...

Keywords: Class hierarchy, Object-oriented databases, Reusability, Schema evolution, Views

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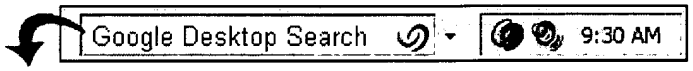
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